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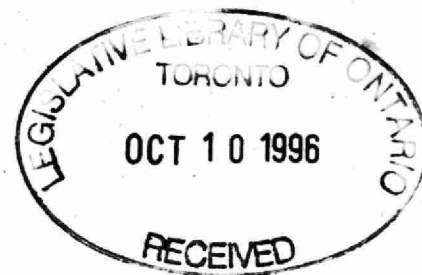
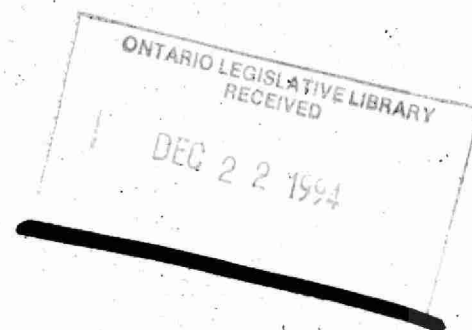
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**The Ministry of Environment and Energy's  
Pollution Prevention Pledge Program**

As of Oct. 13, 1994, the ministry received 25 applicants for the P4 program -- and many are already using pollution prevention as part of their competitive business planning. The applicants were:

- Celanese Canada Incorporated (Millhaven)
- Choice Refer Systems Limited (Belleville)
- Davlin Cleaners Limited (Rexdale)
- Dow Chemical Canada Inc-Sarnia Manufacturing Site
- Drew Chemical Limited (Ajax)
- elf atochem Canada Incorporated (Oakville)
- Fineline Circuits Ltd. (Toronto)
- Hastech Incorporated (Guelph)
- Imperial Oil Ltd. - Finch Avenue Terminal (Toronto)
- Menasco Aerospace Ltd. (Oakville)
- My Valet Dry Cleaners (North Bay)
- Novacor Chemicals Canada Ltd.
- Ontario Store Fixtures (Toronto) - (1993 Award Winner)
- Our Cleaners (Barrie)
- PCB Containment Technology Inc. (Cambridge)
- Petro-Canada Products - Lubricants Centre (Oakville)
- Petro-Canada Products - Oakville Refinery (Oakville)
- Petro-Canada Products - Oakville Terminal (Oakville)
- Polysar Rubber Corporation (Sarnia)



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- Rhone-Poulenc Speciality Chemicals Ltd. (St. Catharines)
- Strataflex Canada Corporation (Toronto)
- Sulco Chemicals Limited.
- The Credit Valley Hospital (Mississauga)
- Xerox - Canadian Manufacturing Operations (Mississauga)
- Xerox - National Supply & Logistics Centre (Mississauga)

### Benefits of Pollution Prevention

Through the Pollution Prevention Strategy and the Pledge Program, the ministry is working with industry to eliminate or reduce substantial releases of toxic contaminants. All these programs are inter-related, and thanks to this holistic approach, the Ministry of Environment and Energy will be able to restore the environment for the benefit of all Ontarians.

To give you some idea of how significant an economic force this sector has become, a study commissioned by the ministry estimated there are over 2,000 Ontario companies in the environmental protection field generating more than 2.5 billion dollars annually. Approximately 15 per cent of all sales are exports.

They are also creating jobs. The green industry sector is Ontario's third largest employer -- ahead of such traditional industries as pulp and paper and chemicals. This industry has also been growing at twice the rate of the Ontario economy as a whole.

For further information: please contact the Pollution Prevention Office at (416) 314-7910, or the ministry's Public Information Centre at (416) 323-4321. For callers outside Toronto can reach the Centre toll-free at 1-(800) 565-4923.

in small, medium-sized and large facilities.

- The **Pollution Prevention Leadership Award** -- given to the environmental group, workplace, association or company which contributed most to the promotion of pollution prevention as an environmentally safe and sound way of living and working.

*The 1994 P<sup>4</sup> Achievement Award winner: Small Facility Award*

**Davlin Cleaners, Rexdale -- Winner of the P4 Small Facility Award**

Davlin Cleaners is a dry-cleaning establishment with a total of 13 employees. It is located in Rexdale and has been operating since 1988. The company specializes in suedes and leathers, wedding gowns, silks, down-filled items and delicate fabrics -- items which average dry cleaners cannot process. Because of its specialized business, the company serves clients from London in the west to Cobourg in the East. Clients include manufacturers and large retail outlets.

Since September 1993 Davlin has been cleaning 30 per cent of its volume using a water-based "New Clean and Green System". Petroleum Stoddard, a solvent, is used on the remaining 70 per cent of the load in a self-contained room with no external venting. One of the company's goals for 1994 is to convert 50 per cent of its volume to the "New Clean and Green System".

By using a combination of Petroleum Stoddard and the "New Clean and Green System", Davlin has been able to eliminate the use of approximately 8,500 litres of perchlorethylene a year. It has also decreased the use of Petroleum Stoddard (which generates hazardous wastes) by 50 per cent. In addition; the use of dyes has gone down by 10 per cent, other pollutants by 20 per cent, and energy consumption by 30 per cent.

*Award categories*

The pollution prevention awards fall into two categories:

- The **Pollution Prevention Achievement Awards** -- given to companies which achieved the most outstanding results in reducing or eliminating pollutant releases through the use of pollution prevention methods. The awards recognize excellence in pollution prevention in small, medium-sized and large facilities.
- The **Pollution Prevention Leadership Award** -- given to the environmental group, workplace, association or company which contributed most to the promotion of pollution prevention as an environmentally safe and sound way of living and working.

### The 1994 P<sup>4</sup> Achievement Award winners: Medium-Sized Facility

#### **elf atochem Canada Inc.** - Oakville co-winner of the P4 Medium- Sized Facility Award 1994

elf atochem Canada Inc. employs approximately 100 workers. The company manufactures and markets a wide range of chemical and lubricant products including acid and caustic cleaners, detergents, fabric softeners and blue jean chemicals, caustic cleaners, grease soups and various lubricating products.

The company is a member of the Canadian Chemical Producers' Association and is a signatory to the Responsible Care ® Commitment -- a voluntary industry based, self-regulating initiative to promote the safe production, handling and management of chemicals from raw products to end use.

elf atochem is committed to making health, safety and environmental considerations a priority in its planning and its operations to protect the environment, its employees and the public. A long-standing policy of the company is to counsel customers on the safe use, distribution and disposal of chemical products.

The company has pledged to meet or exceed all statutory regulations both in practice and in spirit, and to ensure that employees are trained to effectively handle recycling materials, conserve water and energy, and minimize the environmental impact from chemical spills and emissions.

The following are some of the company's award-winning achievements recognized by the ministry:

- commitment to eliminate trichloroethane from all formulations by the end of 1994;
- assurance that lead and chlorinated additives will be eliminated from all lubricants produced and sold;
- a 40 per cent reduction of hazardous wastes by year end 1994;
- work with customers to reduce chemical usage through the use of recycling equipment and other 3Rs initiatives
- urge customers to employ synthetic lubricants with extended life cycles.

Ethylene glycol and copper have been totally eliminated and mineral spirit emissions have been reduced, as well as the use of diethylene glycol and propylene glycol.

#### Award categories

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- The **Pollution Prevention Achievement Awards** -- given to companies which achieved the most outstanding results in reducing or eliminating pollutant releases through the use of pollution prevention methods. The awards recognize excellence in pollution prevention

*The 1994 P<sup>4</sup> Achievement Award winners: Medium-sized Facility*

**Strataflex Canada Corporation** - East York co-winner of the P<sup>4</sup> Medium-Sized Facility Award

Strataflex supplies flexible circuit boards to leading computer, aerospace, telecommunication and defence contractors throughout North America. Their custom-designed products have been used for diverse purposes, such as in satellites, airplanes, portable radio stations, telephones, disk drives, computers, hearing aids, ultrasound machines, gyroscopes, automobiles, missiles and airport control systems.

The company is committed to a "zero haul-away" policy and intends to treat all wastes in-house by the end of 1994. It will achieve this by:

- processing sodium persulfate and sulfuric acid wastes using a newly installed "electrowinning" system and an existing ion exchange system. Instead of copper sulfate sludge, which was previously sent to landfill, the company now generates a metallic copper residue which is removed and sold for reprocessing;
- precipitating copper chloride used in etching circuit boards, film stripper and developer solution to remove and process copper;
- processing all low-level rinses and waste water to remove copper content.

A new storage tank is being installed to capture all spills and leaks which will then be re-processed (reducing discharges to sewers).

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- **The Pollution Prevention Leadership Award** -- given to the environmental group, workplace, association or company which contributed most to the promotion of pollution prevention as an environmentally safe and sound way of living and working.

*The 1994 P<sup>1</sup> Achievement Award winner: Large Facility Award*

**Xerox Canada** -- Canadian Manufacturing Operations, Mississauga --

This facility employs 550 people. It produces (and rebuilds) paper handling assemblies for use in company products which are exported throughout the world. Incorporated into the facility is the company's Electronics Repair Centre which services North America.

Xerox removed hazardous materials from its processes by eliminating some chemicals and substituting others with more environmentally friendly materials. Hazardous materials such as waste solder from cleaning and resoldering of circuit boards, are collected and recycled. All ozone depleting substances have been eliminated from the facility.

An employee education and training initiative has been implemented as part of the solvent reduction process. The program includes measures such as:

- using the right cleaner for the tasks
- closing containers and covering tanks with lids immediately after use to prevent evaporation
- spraying solvent directly onto sturdy reusable rags rather than machines

The measures taken at the Mississauga Plant are part of a Xerox Corporation Environmental Stewardship Program. Xerox is committed to the philosophy of sustainable development and considers pollution prevention to be an integral part of sustainability. Xerox has an environmental vision -- to have waste-free products from waste-free factories and total product stewardship for its document processing products.

*Award categories*

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The 1994 P<sup>1</sup> Leadership Award winner:

## **Hamilton District Autobody Repair Association (HARA)**

This association has reached out to more than 300 automotive repair businesses in the Golden Horseshoe area by holding "Economic Opportunity Workshops" and sending out newsletters and information packages. The association has a dual message: it informs its members of the legislation applicable to autobody shops and shows them how they can go beyond compliance to achieve greater economic and environmental gains.

Association members are taking big strides in reducing their Volatile Organic Compounds (VOCs) -- they are recovering and reusing solvents (cleaners and paint thinners). HARA members are also reducing paint consumption by substituting high volume low pressure spray paint guns (HVLV).

Autobody shops have reduced their use of solvents by more than 80 per cent. They have done so by implementing on-site solvent recycling. This has resulted in savings of \$2,000 in solvents plus another \$1,000 in spent solvent disposal costs. HARA estimates that in the region of Hamilton-Wentworth alone, between 80,000 and 90,000 litres of solvents are saved annually. The Association believes a province-wide reduction of 400,000 - 500,000 litres of solvents can be achieved if their Environmental Opportunity Workshops continue to have the same impact.

### Award categories

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- **The Pollution Prevention Achievement Awards** -- given to companies which achieved the most outstanding results in reducing or eliminating pollutant releases through the use of pollution prevention methods. The awards recognize excellence in pollution prevention in small, medium-sized and large facilities.
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### Selection criteria

The selection of candidates for awards is based on the following criteria:

- The extent of reduction achieved and substances involved;
- the use of new technology or modifications to existing technology;
- whether the achievement resulted from a team effort involving management and employees at all levels;
- if the reduction was part of a long term pollution prevention plan, and whether reductions would be continuous;
- to what extent the reduction cut operating costs and made the company more competitive; and
- whether the measures used could be applied by other companies.

The P4 awards represent one of the most important investments Ontario is making in its future. That's because there is an urgency to stop the creation and discharge of toxic chemicals into our environment.

### Pollution Prevention ... its history

For the past 20 years, the government's basic operating method has been to react to crises and then try to cure the problem. In essence, reliance was on **intervention**, not **prevention**.

In 1992, to meet the challenges of the 1990s, the then Ministry of the Environment established a Pollution Prevention Office to encourage individuals, institutions and industries to make changes in their basic operations to prevent pollution before it was created.

Last November, the ministry unveiled the Pollution Prevention Pledge Program -- or P4.

The program challenges industry collectively to achieve a 50 per cent reduction in the release of 70 types of chemicals and hazardous wastes by the year 1995 and a 90 per cent reduction by the year 2000.

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